

FIG. 1

112
114
116
118

MISMATCH CALCULATOR FOR DATA ENTRY

☐ smos7lv
☐ MOS
☐ nlv
☐ Voltage Driven

120
122

Create Data Entry Form
View Related Plots

Model= smos7lv_sps_tsg.udlib.rev0b

Calculate
Reset
email address: [xxxxx]

Single
 Vd: (V) [xxx]
 Vg: (V) [xxx]
 Vb: (V) [xxx]
 W: (cdr) [xxx]
 L: (cdr) [xxx]
 Temp (C): [xxx]

-OR-
 String
 [xxxxx]
 [xxxxx]
 [xxxxx]
 [xxxxx]
 [xxxxx]
 [xxxxx]

Range
 From To Steps
 [xxx] [xxx] [xxx]
 [xxx] [xxx] [xxx]
 [xxx] [xxx] [xxx]
 [xxx] [xxx] [xxx]
 [xxx] [xxx] [xxx]
 [xxx] [xxx] [xxx]

Cross Coupled?
Center-to-Center
Sigmatas(#)

☒ Show Mismatch Process Parameter Contributions
☐ Show Capacitances and Conductances

☒ Show Vdsat at [xx] dB drop from peak Rout: Step Size= [xx] V

MISMATCH RESULTS

W= 2
 L= 2
 Vb= 0
 Sigma= 1
 Temp= 27

Vd= 2.5
 Vg= 1
 CTC= 0.0000

X-Cpl= OFF

	Id MM (+/-)	Vg MM (+/-)
Total	2.7323%	4.9071mV
dl	0.0294	0.0442
dwox	0.0091	0.0193
gox	0.2070	0.4081
nsub	0.0118	0.0236
rsh	0.0000	0.0000
ubref	0.3572	0.7159
vfb	2.6715	4.7872
vtl	0.0026	0.0044
vtw	0.3956	0.6924

MISMATCH NOTES

Mismatch model based on Lot MB19168, wafer7 from C1SD

FIG. 2

Model= smos7lv_sps_tsg.udlib.rev0b

email address:

	Single	String	Range		
			From	To	Steps
Vd: (V)	<input type="text" value="xxx"/>	<input type="text" value="xxxxx"/>	<input type="text" value="xxx"/>	<input type="text" value="xxx"/>	<input type="text" value="xxx"/>
Vg: (V)	<input type="text" value="xxx"/>	<input type="text" value="xxxxx"/>	<input type="text" value="xxx"/>	<input type="text" value="xxx"/>	<input type="text" value="xxx"/>
Vb: (V)	<input type="text" value="xxx"/>	<input type="text" value="xxxxx"/>	<input type="text" value="xxx"/>	<input type="text" value="xxx"/>	<input type="text" value="xxx"/>
W: (cdr)	<input type="text" value="xxx"/>	<input type="text" value="xxxxx"/>	<input type="text" value="xxx"/>	<input type="text" value="xxx"/>	<input type="text" value="xxx"/>
L: (cdr)	<input type="text" value="xxx"/>	<input type="text" value="xxxxx"/>	<input type="text" value="xxx"/>	<input type="text" value="xxx"/>	<input type="text" value="xxx"/>
Temp (C):	<input type="text" value="xxx"/>	<input type="text" value="xxxxx"/>	<input type="text" value="xxx"/>	<input type="text" value="xxx"/>	<input type="text" value="xxx"/>

☐ Cross Coupled? ☐ Center-to-Center Sigmas(#)

☒ Show Mismatch Process Parameter Contributions
☐ Show Capacitances and Conductances
☐ Show Vdsat at dB drop from peak Rout: Step Size= V

152a

MISMATCH RESULTS		
W= 2	Vd= 2.5	X-Cpl= OFF
L= 2	Vg= 1	CTC= 0.0000
	Vb= 0	Sigma= 1
		Temp= 27

154a

	Id MM (+/-)	Vg MM (+/-)
157a Total	2.7323%	4.9071mV
dl	0.0294	0.0442
dwox	0.0091	0.0193
gox	0.2070	0.4081
nsub	0.0118	0.0236
rsh	0.0000	0.0000
ubref	0.3572	0.7159
vfb	2.6715	4.7872
vtl	0.0026	0.0044
vtw	0.3956	0.6924

155a

159a

FIG. 4

150a

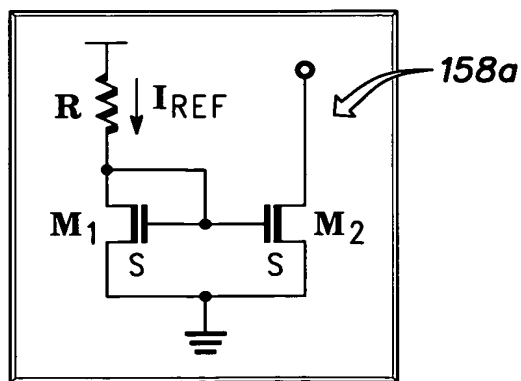
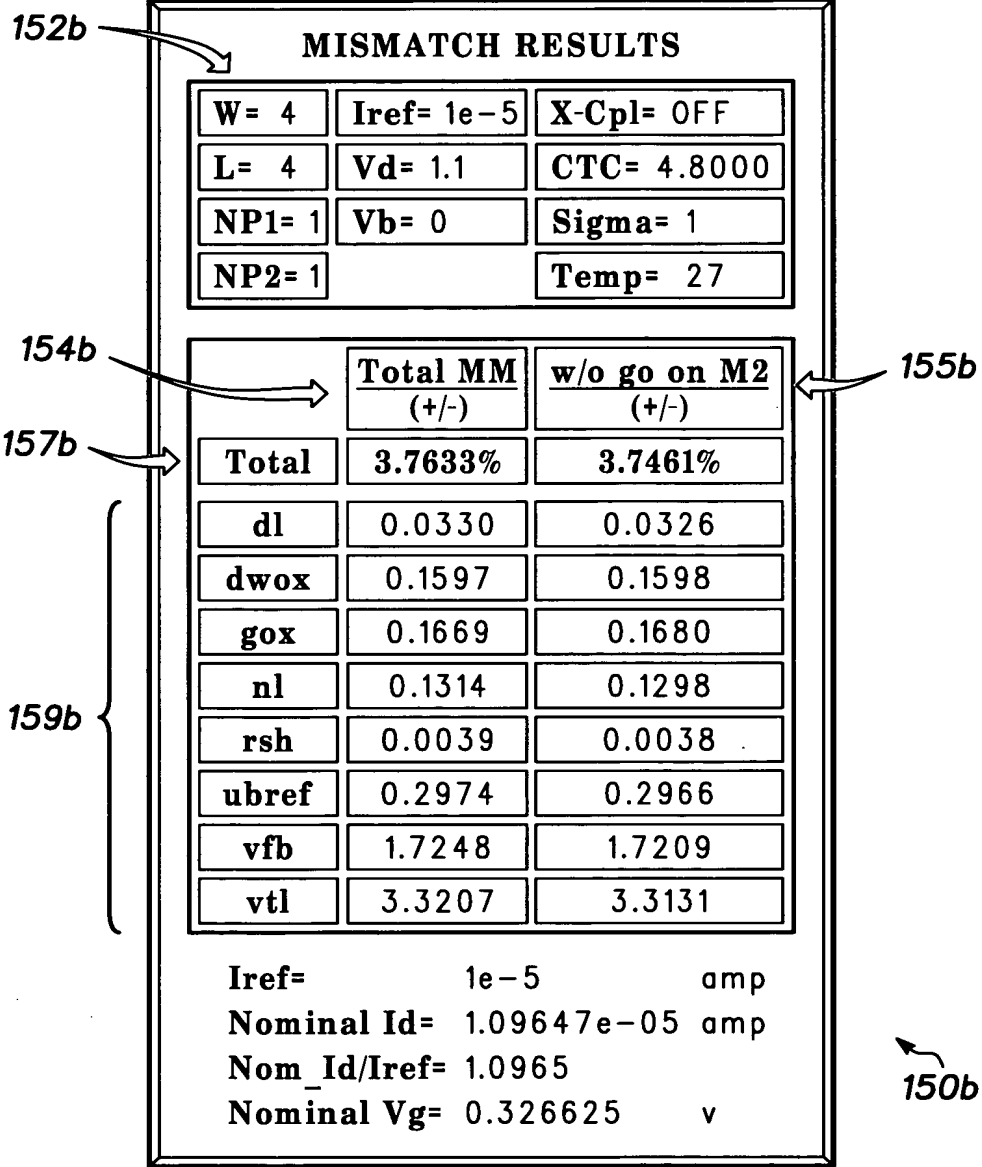


FIG. 5

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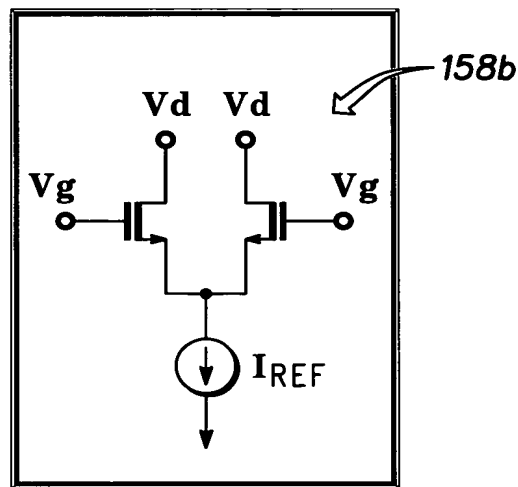
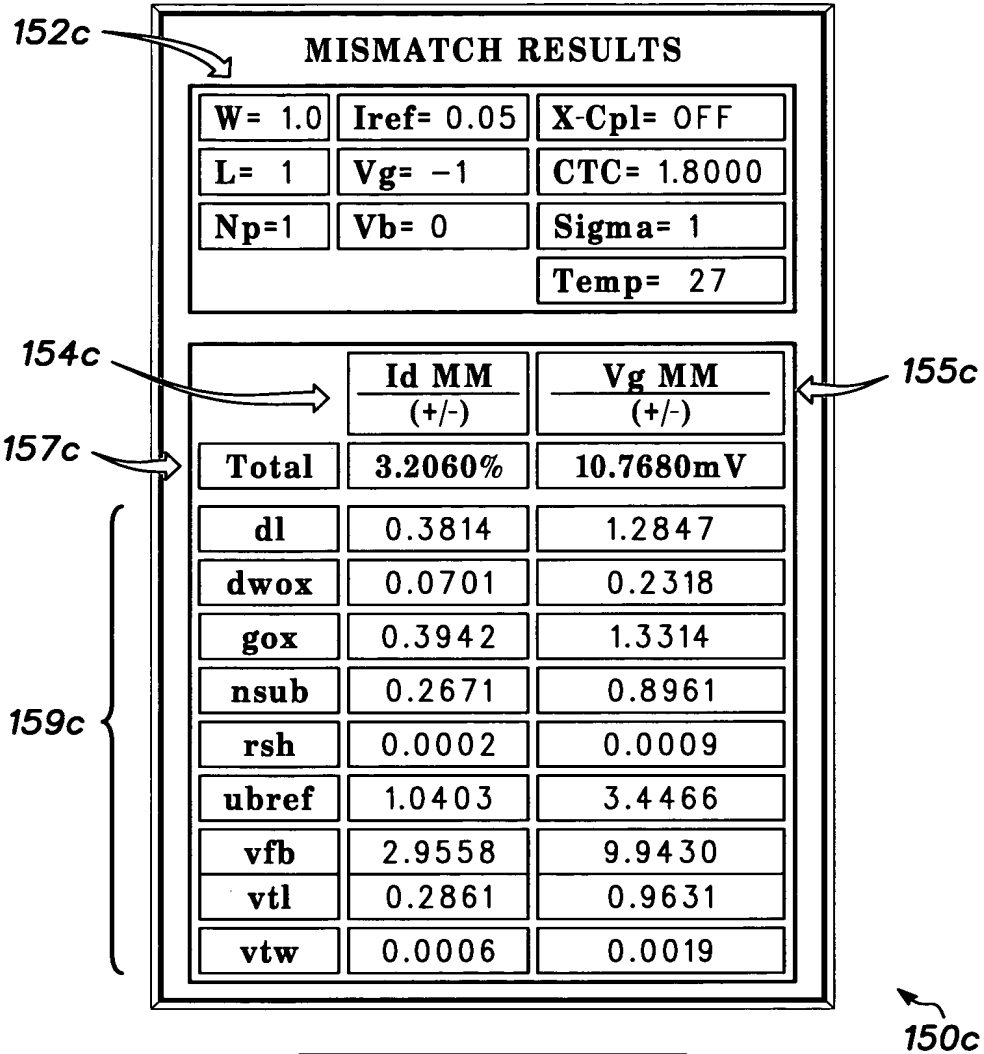


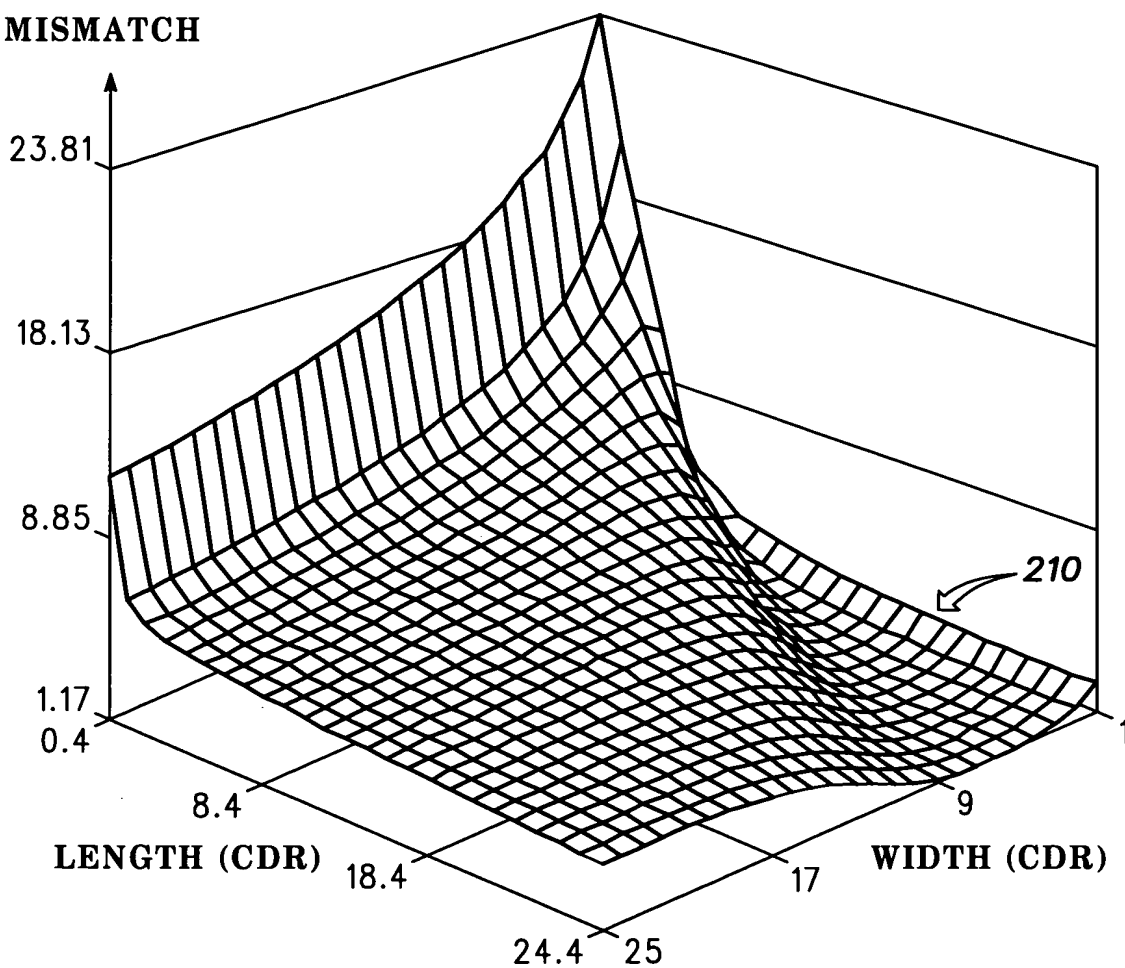
FIG. 6

001050 001050

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

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Id MISMATCH



200

FIG. 7

1. *Chlorophyll a* (Chl *a*)
 2. *Chlorophyll b* (Chl *b*)
 3. *Chlorophyll c* (Chl *c*)
 4. *Chlorophyll d* (Chl *d*)
 5. *Chlorophyll e* (Chl *e*)
 6. *Chlorophyll f* (Chl *f*)
 7. *Chlorophyll g* (Chl *g*)
 8. *Chlorophyll h* (Chl *h*)
 9. *Chlorophyll i* (Chl *i*)
 10. *Chlorophyll j* (Chl *j*)
 11. *Chlorophyll k* (Chl *k*)
 12. *Chlorophyll l* (Chl *l*)
 13. *Chlorophyll m* (Chl *m*)
 14. *Chlorophyll n* (Chl *n*)
 15. *Chlorophyll o* (Chl *o*)
 16. *Chlorophyll p* (Chl *p*)
 17. *Chlorophyll q* (Chl *q*)
 18. *Chlorophyll r* (Chl *r*)
 19. *Chlorophyll s* (Chl *s*)
 20. *Chlorophyll t* (Chl *t*)
 21. *Chlorophyll u* (Chl *u*)
 22. *Chlorophyll v* (Chl *v*)
 23. *Chlorophyll w* (Chl *w*)
 24. *Chlorophyll x* (Chl *x*)
 25. *Chlorophyll y* (Chl *y*)
 26. *Chlorophyll z* (Chl *z*)
 27. *Chlorophyll aa* (Chl *aa*)
 28. *Chlorophyll ab* (Chl *ab*)
 29. *Chlorophyll ac* (Chl *ac*)
 30. *Chlorophyll ad* (Chl *ad*)
 31. *Chlorophyll ae* (Chl *ae*)
 32. *Chlorophyll af* (Chl *af*)
 33. *Chlorophyll ag* (Chl *ag*)
 34. *Chlorophyll ah* (Chl *ah*)
 35. *Chlorophyll ai* (Chl *ai*)
 36. *Chlorophyll aj* (Chl *aj*)
 37. *Chlorophyll ak* (Chl *ak*)
 38. *Chlorophyll al* (Chl *al*)
 39. *Chlorophyll am* (Chl *am*)
 40. *Chlorophyll an* (Chl *an*)
 41. *Chlorophyll ao* (Chl *ao*)
 42. *Chlorophyll ap* (Chl *ap*)
 43. *Chlorophyll aq* (Chl *aq*)
 44. *Chlorophyll ar* (Chl *ar*)
 45. *Chlorophyll as* (Chl *as*)
 46. *Chlorophyll at* (Chl *at*)
 47. *Chlorophyll au* (Chl *au*)
 48. *Chlorophyll av* (Chl *av*)
 49. *Chlorophyll aw* (Chl *aw*)
 50. *Chlorophyll ax* (Chl *ax*)
 51. *Chlorophyll ay* (Chl *ay*)
 52. *Chlorophyll az* (Chl *az*)
 53. *Chlorophyll ba* (Chl *ba*)
 54. *Chlorophyll bb* (Chl *bb*)
 55. *Chlorophyll bc* (Chl *bc*)
 56. *Chlorophyll bd* (Chl *bd*)
 57. *Chlorophyll be* (Chl *be*)
 58. *Chlorophyll bf* (Chl *bf*)
 59. *Chlorophyll bg* (Chl *bg*)
 60. *Chlorophyll bh* (Chl *bh*)
 61. *Chlorophyll bi* (Chl *bi*)
 62. *Chlorophyll bj* (Chl *bj*)
 63. *Chlorophyll bk* (Chl *bk*)
 64. *Chlorophyll bl* (Chl *bl*)
 65. *Chlorophyll bm* (Chl *bm*)
 66. *Chlorophyll bn* (Chl *bn*)
 67. *Chlorophyll bo* (Chl *bo*)
 68. *Chlorophyll bp* (Chl *bp*)
 69. *Chlorophyll bq* (Chl *bq*)
 70. *Chlorophyll br* (Chl *br*)
 71. *Chlorophyll bs* (Chl *bs*)
 72. *Chlorophyll bt* (Chl *bt*)
 73. *Chlorophyll bu* (Chl *bu*)
 74. *Chlorophyll bv* (Chl *bv*)
 75. *Chlorophyll bw* (Chl *bw*)
 76. *Chlorophyll bx* (Chl *bx*)
 77. *Chlorophyll by* (Chl *by*)
 78. *Chlorophyll bz* (Chl *bz*)
 79. *Chlorophyll ca* (Chl *ca*)
 80. *Chlorophyll cb* (Chl *cb*)
 81. *Chlorophyll cc* (Chl *cc*)
 82. *Chlorophyll cd* (Chl *cd*)
 83. *Chlorophyll ce* (Chl *ce*)
 84. *Chlorophyll cf* (Chl *cf*)
 85. *Chlorophyll cg* (Chl *cg*)
 86. *Chlorophyll ch* (Chl *ch*)
 87. *Chlorophyll ci* (Chl *ci*)
 88. *Chlorophyll cj* (Chl *cj*)
 89. *Chlorophyll ck* (Chl *ck*)
 90. *Chlorophyll cl* (Chl *cl*)
 91. *Chlorophyll cm* (Chl *cm*)
 92. *Chlorophyll cn* (Chl *cn*)
 93. *Chlorophyll co* (Chl *co*)
 94. *Chlorophyll cp* (Chl *cp*)
 95. *Chlorophyll cq* (Chl *cq*)
 96. *Chlorophyll cr* (Chl *cr*)
 97. *Chlorophyll cs* (Chl *cs*)
 98. *Chlorophyll ct* (Chl *ct*)
 99. *Chlorophyll cu* (Chl *cu*)
 100. *Chlorophyll cv* (Chl *cv*)
 101. *Chlorophyll cw* (Chl *cw*)
 102. *Chlorophyll cx* (Chl *cx*)
 103. *Chlorophyll cy* (Chl *cy*)
 104. *Chlorophyll cz* (Chl *cz*)
 105. *Chlorophyll da* (Chl *da*)
 106. *Chlorophyll db* (Chl *db*)
 107. *Chlorophyll dc* (Chl *dc*)
 108. *Chlorophyll dd* (Chl *dd*)
 109. *Chlorophyll de* (Chl *de*)
 110. *Chlorophyll df* (Chl *df*)
 111. *Chlorophyll dg* (Chl *dg*)
 112. *Chlorophyll dh* (Chl *dh*)
 113. *Chlorophyll di* (Chl *di*)
 114. *Chlorophyll dj* (Chl *dj*)
 115. *Chlorophyll dk* (Chl *dk*)
 116. *Chlorophyll dl* (Chl *dl*)
 117. *Chlorophyll dm* (Chl *dm*)
 118. *Chlorophyll dn* (Chl *dn*)
 119. *Chlorophyll do* (Chl *do*)
 120. *Chlorophyll dp* (Chl *dp*)
 121. *Chlorophyll dq* (Chl *dq*)
 122. *Chlorophyll dr* (Chl *dr*)
 123. *Chlorophyll ds* (Chl *ds*)
 124. *Chlorophyll dt* (Chl *dt*)
 125. *Chlorophyll du* (Chl *du*)
 126. *Chlorophyll dv* (Chl *dv*)
 127. *Chlorophyll dw* (Chl *dw*)
 128. *Chlorophyll dx* (Chl *dx*)
 129. *Chlorophyll dy* (Chl *dy*)
 130. *Chlorophyll dz* (Chl *dz*)
 131. *Chlorophyll ea* (Chl *ea*)
 132. *Chlorophyll eb* (Chl *eb*)
 133. *Chlorophyll ec* (Chl *ec*)
 134. *Chlorophyll ed* (Chl *ed*)
 135. *Chlorophyll ee* (Chl *ee*)
 136. *Chlorophyll ef* (Chl *ef*)
 1

114

MISMATCH CALCULATOR DATA ENTRY

cdrlbc

RES

cmim

110

Create Data Entry Form

120

View Related Plots

110

MISMATCH RESULTS

Capacitor MM (+/-)

Total

0.0416%

162

Capacitor Size= 129.6pF

150e

Model= n/a

Calculate

Reset

email address: xxxxx

Single

W: (cdr)

L: (cdr)

String

xxxxx

xxxxx

-OR-

Center-to-Center

126

Range

From

To

Steps

xxxx

xxxx

xxxx

xxxx

128

138

134

Cross Coupled?

126

Center-to-Center

128

Sigmas(#)

134

Info

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FIG. 9